

## § 229.135

## 49 CFR Ch. II (10–1–01 Edition)

§ 229.125(d) (1) through (3) until the locomotive is retired or rebuilt, whichever comes first.

[58 FR 6902, Feb. 3, 1993, as amended at 59 FR 24963, May 13, 1994; 59 FR 39705, Aug. 4, 1994; 61 FR 8887, Mar. 6, 1996]

### § 229.135 Event recorders.

(a) *Duty to equip.* Effective May 5, 1995, and except as provided in paragraph (b) of this section, any train operated faster than 30 miles per hour shall have an in-service event recorder in the lead locomotive. The presence of the event recorder shall be noted on Form FRA F6180-49A, under the REMARKS section, except that an event recorder designed to allow the locomotive to assume the lead position only if the recorder is properly functioning is not required to have its presence noted on Form FRA F6180-49A. For the purpose of this section, “train” includes a locomotive or group of locomotives with or without cars, and “lead locomotive” means the locomotive from whose cab the crew is operating the train and, when cab control locomotives and/or MU locomotives are coupled together, is the first locomotive proceeding in the direction of movement. The duty to equip the lead locomotive may be met with an event recorder located elsewhere than the lead locomotive provided that such event recorder monitors and records the required data as though it were located in the lead locomotive.

(b) *Response to defective equipment.* A locomotive on which the event recorder has been taken out of service as provided in paragraph (c) of this section may remain as the lead locomotive only until the next calendar-day inspection. A locomotive with an inoperative event recorder is not deemed to be in improper condition, unsafe to operate, or a non-complying locomotive under §§ 229.7 and 229.9, and notwithstanding any other requirements in this chapter, inspection, maintenance, and testing of event recorders is limited to the requirements set forth in § 229.25(e).

(c) *Removal from service.* A railroad may remove an event recorder from service and, if a railroad knows that an event recorder is not monitoring or recording the data specified in § 229.5(g),

shall remove the event recorder from service. When a railroad removes an event recorder from service, a qualified person shall cause to be recorded the date the device was removed from service on Form FRA F6180-49A, under the REMARKS section. An event recorder designed to allow the locomotive to assume the lead position only if the recorder is properly functioning is not required to have its removal from service noted on Form FRA F6180-49A.

(d) *Preserving accident data.* For the purposes of this section, the term “event recorder” includes all locomotive-mounted recording devices designed to record information concerning the functioning of a locomotive or train regardless of whether the device meets the definition of “event recorder” in § 229.5.

(1) *Accidents required to be reported to the Federal Railroad Administration.* If any locomotive equipped with an event recorder is involved in an accident that is required to be reported to FRA, the railroad using the locomotive shall, to the extent possible, and to the extent consistent with the safety of life and property, preserve the data recorded by the device for analysis by FRA. This preservation requirement permits the railroad to extract and analyze such data; *provided* the original or a first-order accurate copy of the data shall be retained in secure custody and shall not be utilized for analysis or any other purpose except by direction of FRA or the National Transportation Safety Board. This preservation requirement shall expire 30 days after the date of the accident unless FRA or the Board notifies the railroad in writing that the data are desired for analysis.

(2) *Relationship to other laws.* Nothing in this section is intended to alter the legal authority of law enforcement officials investigating potential violation(s) of State criminal law(s) and nothing in this chapter is intended to alter in any way the priority of National Transportation Safety Board investigations under 49 U.S.C. 1131 and 1134, nor the authority of the Secretary of Transportation to investigate railroad accidents under 49 U.S.C. 5121, 5122, 20107, 20111, 20112, 20505, 20702, 20703, and 20902.

(e) *Disabling event recorders.* Except as provided in paragraph (c) of this section, any individual who willfully disables an event recorder is subject to civil penalty and to disqualification from performing safety-sensitive functions on a railroad as provided in § 218.55 of this chapter and any individual who tampers with or alters the data recorded by such a device is subject to a civil penalty as provided in appendix B of this part and to disqualification from performing safety-sensitive functions on a railroad if found unfit for such duties under the procedures in 49 CFR part 209.

[58 FR 36614, July 8, 1993, as amended at 60 FR 27905, May 26, 1995]

### Subpart D—Design Requirements

#### § 229.141 Body structure, MU locomotives.

(a) MU locomotives built new after April 1, 1956 that are operated in trains having a total empty weight of 600,000 pounds or more shall have a body structure designed to meet or exceed the following minimum specifications:

(1) The body structure shall resist a minimum static end load of 800,000 pounds at the rear draft stops ahead of the bolster on the center line of draft, without developing any permanent deformation in any member of the body structure.

(2) An anti-climbing arrangement shall be applied at each end that is designed so that coupled MU locomotives under full compression shall mate in a manner that will resist one locomotive from climbing the other. This arrangement shall resist a vertical load of 100,000 pounds without exceeding the yield point of its various parts or its attachments to the body structure.

(3) The coupler carrier and its connections to the body structure shall be designed to resist a vertical downward thrust from the coupler shank of 100,000 pounds for any horizontal position of the coupler, without exceeding the yield points of the materials used. When yielding type of coupler carrier is used, an auxiliary arrangement shall be provided that complies with these requirements.

(4) The outside end of each locomotive shall be provided with two main

vertical members, one at each side of the diaphragm opening; each main member shall have an ultimate shear value of not less than 300,000 pounds at a point even with the top of the underframe member to which it is attached. The attachment of these members at bottom shall be sufficient to develop their full shear value. If reinforcement is used to provide the shear value, the reinforcement shall have full value for a distance of 18 inches up from the underframe connection and then taper to a point approximately 30 inches above the underframe connection.

(5) The strength of the means of locking the truck to the body shall be at least the equivalent of an ultimate shear value of 250,000 pounds.

(b) MU locomotives built new after April 1, 1956 that are operated in trains having a total empty weight of less than 600,000 pounds shall have a body structure designed to meet or exceed the following minimum specifications:

(1) The body structure shall resist a minimum static end load of 400,000 pounds at the rear draft stops ahead of the bolster on the center line of draft, without developing any permanent deformation in any member of the body structure.

(2) An anti-climbing arrangement shall be applied at each end that is designed so that coupled locomotives under full compression shall mate in a manner that will resist one locomotive from climbing the other. This arrangement shall resist a vertical load of 75,000 pounds without exceeding the yield point of its various parts or its attachments to the body structure.

(3) The coupler carrier and its connections to the body structure shall be designed to resist a vertical downward thrust from the coupled shank of 75,000 pounds for any horizontal position of the coupler, without exceeding the yield points of the materials used. When a yielding type of coupler carrier is used, an auxiliary arrangement shall be provided that complies with these requirements.

(4) The outside end of each MU locomotive shall be provided with two main vertical members, one at each side of the diaphragm opening; each main member shall have an ultimate shear